

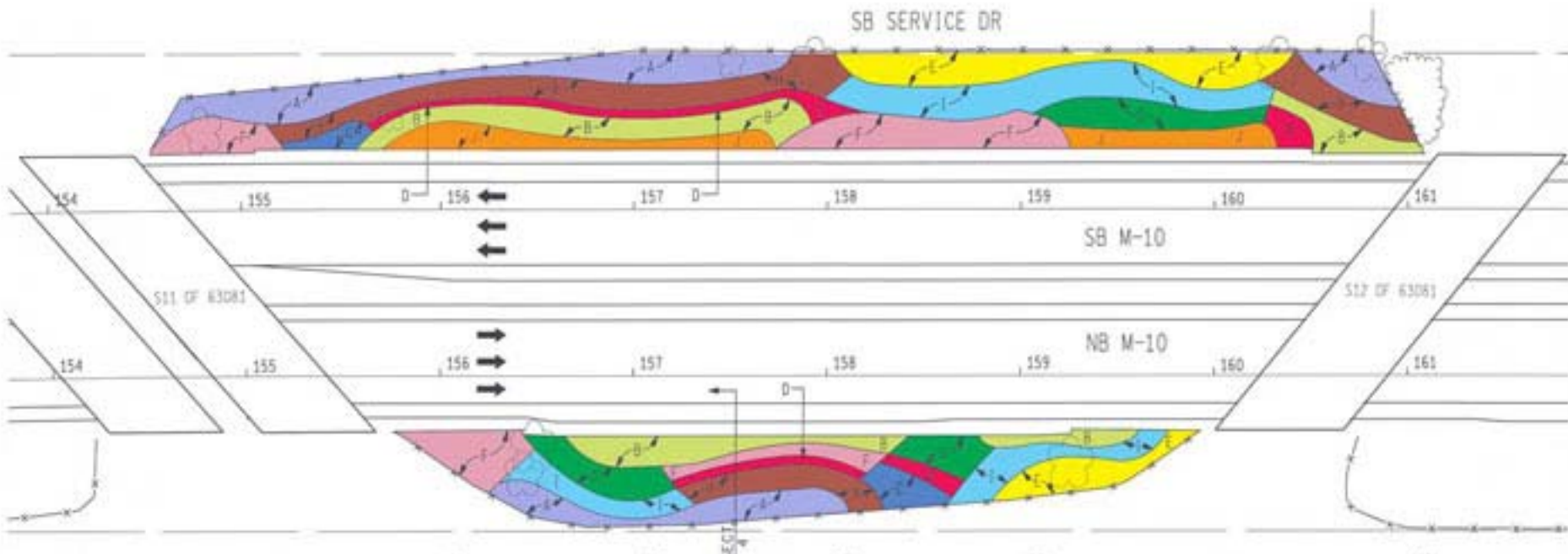
M-10 Slope Planting Proposal

Prepared by: MDOT Roadside Development

Project Location



Planting Plan



PLANT QUANTITIES THIS SHEET

SYMBOL	QUAN(Ed)	BOTANICAL NAME	COMMON NAME	SPACING
A	425	<i>Panicum Virgatum</i> 'Cloud Nine', #2 Pot	Cloud Nine Switch Grass	4'-5'00
B	5894	<i>Allium Sericeum</i> Subsp. <i>Montanum</i> , 3 1/4" Pot	Mountain Garlic	10"-14'00
C	290	<i>Scutellaria Scutellaria</i> 'The Blues' (Zone 3), #1 Pot	The Blues' Little Bluestem	1.5'-2'30
D	600	<i>Colchicum Autumnale</i> 'Maple', #1 Pot	Maple Colchicum	2'00
E	285	<i>Panicum Virgatum</i> 'Northwind', #1 Pot	Northwind Switch Grass	4'-5'00
F	1334	<i>Rosa x</i> 'Nearly Wild', #2 Pot	Nearly Wild Rose	2.5'00
G	843	<i>Scorobolus Hieracifolius</i> , #1 Pot	Prairie Dropseed	1.5'-2'30
H	676	<i>Panicum Virgatum</i> 'Hoschmidt's', #1 Pot	Red Switch Grass	3'00
I	950	<i>Panicum Virgatum</i> 'Heavy Metal'	Heavy Metal Switch Grass	2.5'-3'00
J	699	<i>Nepeta x</i> 'Fodder', 'Walkers Low'	Walkers Low Nepeta	2'00

TOTAL
PLANTS

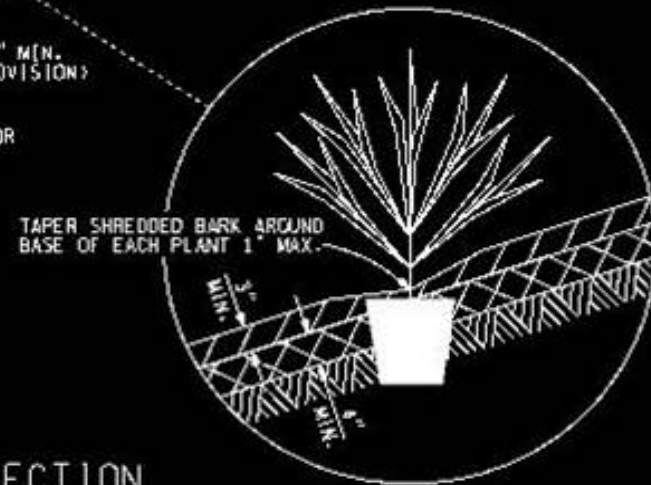
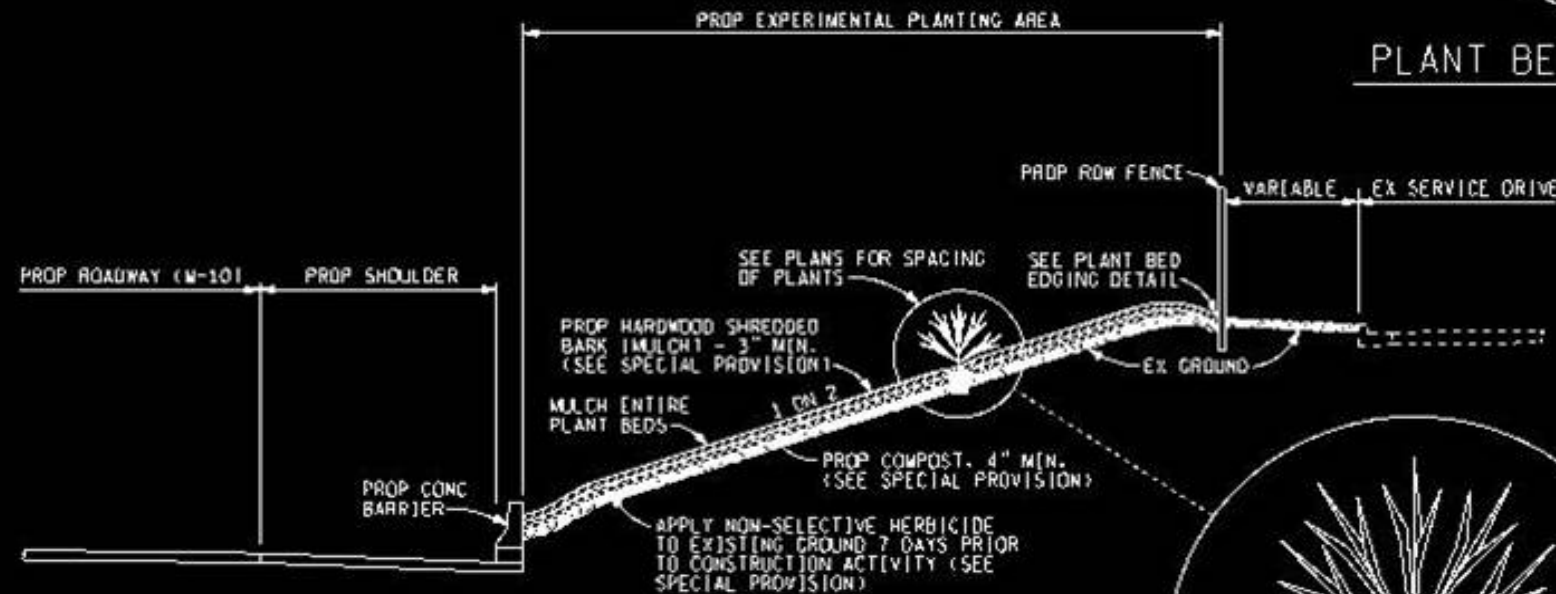
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NO SUBSTITUTIONS OF PLANT MATERIAL WILL BE ACCEPTED

Typical Section and Planting Detail

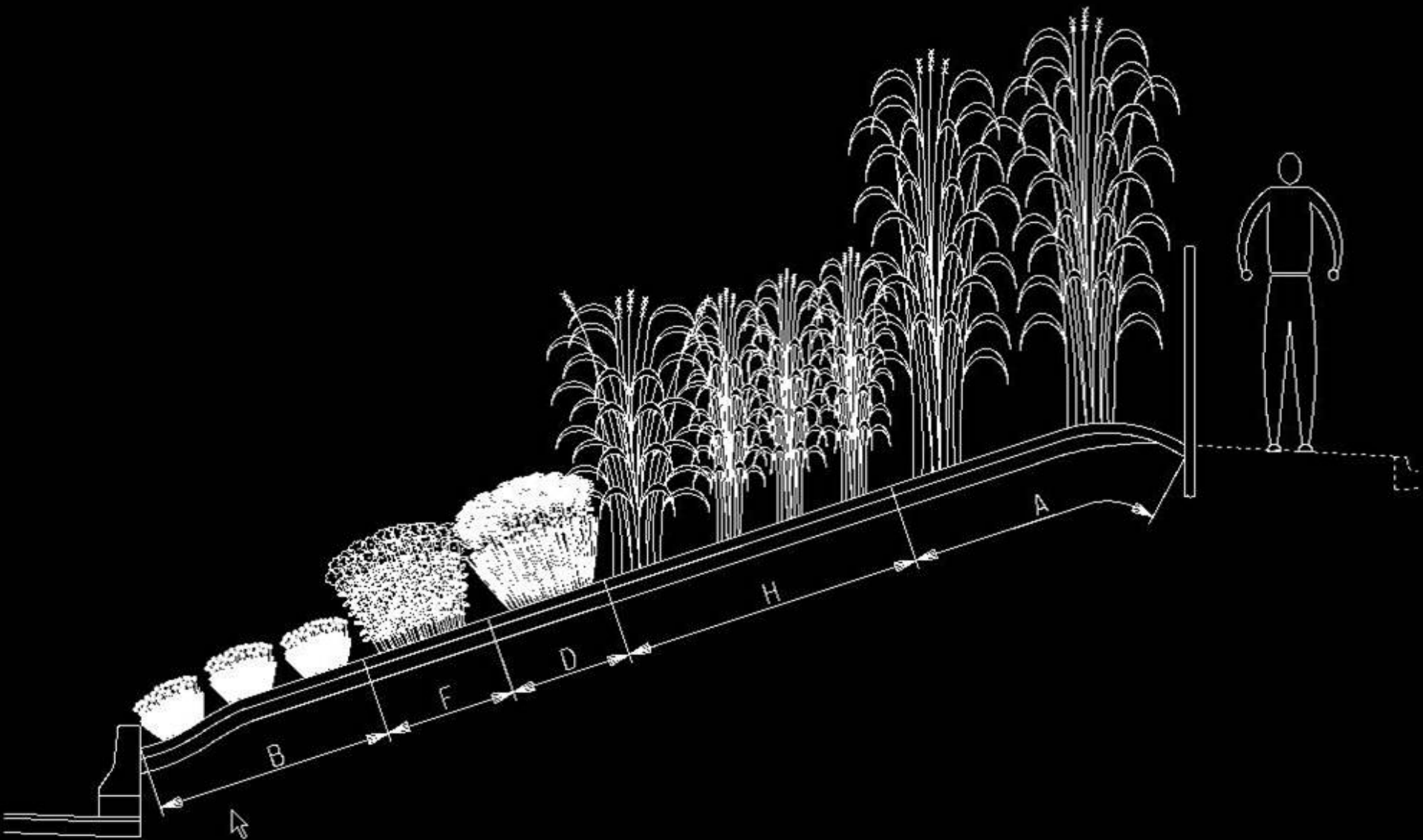


PLANT BED EDGING DETAIL



M-10
TYPICAL PLANTING CROSS SECTION
NOT TO SCALE

Typical Section



Before road and slope improvements



After road and slope improvements



Before road and slope improvements



After road and slope improvements



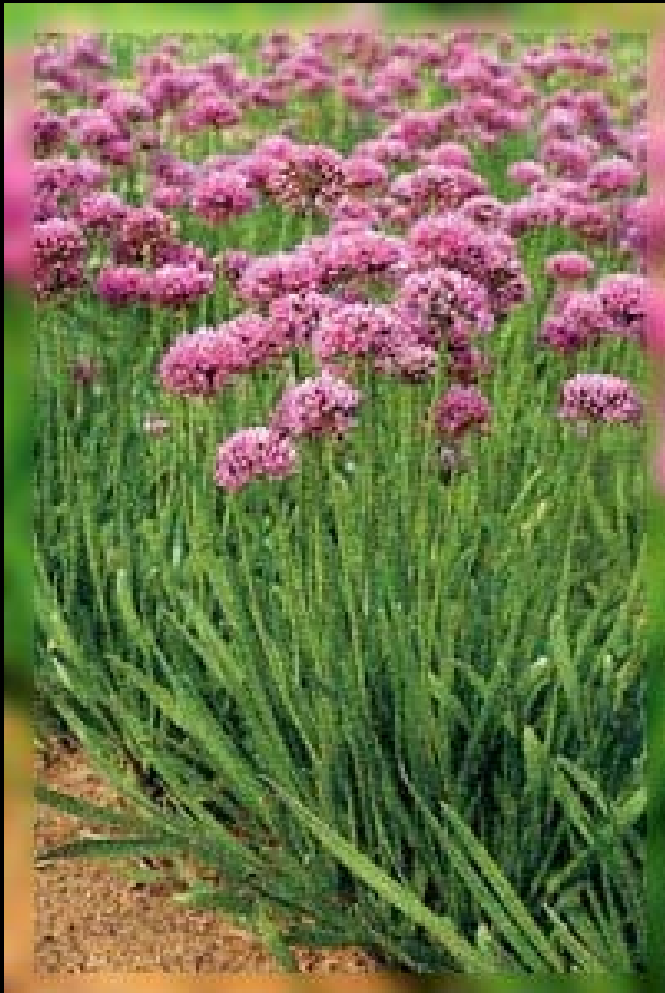
Plant Selections

Panicum virgatum 'Cloud Nine' ~ Tall Switch Grass



- ✓ Zone 4 ornamental grass. Native to Prairies and open ground through the U.S and Canada.
- ✓ Long-lived long, warm season grass.
- ✓ Drought and heat tolerant once established.
- ✓ 6'-8' height in full flower.
- ✓ Dark gold in Autumn.

Allium senescens spp. *montanum* ~ 'Mountain Garlic'



- ✓ Zone 5, herbaceous perennial. Clump forming, strap-like leaves with vertical posture.
- ✓ 10" mature height
- ✓ Drought and heat tolerant once established.
- ✓ Pink-purple florets mid-late summer.

Schizachyrium scoparium 'The Blues' ~ Little Bluestem



- ✓ Zone 4, native grass, clump forming.
- ✓ 2' height at maturity
- ✓ Drought and heat tolerant once established.
- ✓ Steel blue foliage turning yellow and burgundy in fall.

Echinacea purpurea 'Magnus' ~ Purple Coneflower



- ✓ Zone 3, native herbaceous perennial with large pink-purple flowers in mid-summer.
- ✓ 2.5' height at maturity
- ✓ Tough plant for difficult locations. Drought and heat tolerant once established.
- ✓ Good companion plant for grasses.

Panicum virgatum 'Northwind' ~ Northwind Switch Grass



- ✓ Zone 4, native ornamental grass stands upright and has a vase shaped habit.
- ✓ 5' height at maturity
- ✓ Drought and heat tolerant once established.
- ✓ Upright floral spikes in late fall.

Rosa 'Nearly Wild' ~ Nearly Wild Rose



- ✓ Zone 3, native woody plant with large pink-purple flowers in mid-summer.
- ✓ 2.5' height at maturity
- ✓ Tough plant for difficult locations. Drought and heat tolerant once established.
- ✓ Good companion plant for grasses.

Sporobolus heterolepis ~ Prairie Dropseed



- ✓ Zone 4, native ornamental grass. Fine textured and clump forming.
- ✓ 2.5' height at maturity
- ✓ Tough plant for difficult locations. Drought and heat tolerant once established.
- ✓ Flowers in late summer in all types of soil.

Panicum virgatum 'Rostrahlbusch' ~ Red Switch Grass



- ✓ Zone 4, native ornamental grass with broad vase shape. Open airy flower panicles mid-summer.
- ✓ 3' height at maturity
- ✓ Tough plant for difficult locations. Drought and heat tolerant once established.
- ✓ Excellent Red Fall Color

Panicum virgatum 'Heavy Metal' ~ Heavy Metal Switch Grass



- ✓ Zone 4, native ornamental grass with neat compact-upright habit and unusual metallic blue foliage.
- ✓ 3.5' height at maturity
- ✓ Tough plant for difficult locations. Drought and heat tolerant once established.
- ✓ Good companion plant for taller grasses.

Nepeta x faassennii 'Walkers Low' ~ Walkers Low Nepeta



- ✓ Zone 3, herbaceous perennial with sprawling habit. Long blooming season from April-Fall.
- ✓ 1.75' height at maturity
- ✓ Tough plant for difficult locations. Drought and heat tolerant once established.
- ✓ Good companion plant for grasses.

Site Preparation

- Site prep includes:
 - Herbicide application
 - Brush and stump removal
 - Organic debris removal
 - Existing turf was left in place after herbicide application in order to maintain stability of the slope.



Seven days after herbicide application

Pneumatic Compost Application

- Pneumatic compost application includes:
 - Compost as specified in Pneumatic Compost Special Provision
 - Compost was mixed with tackifier that holds soil in place when exposed to water.
 - Compost was applied to even out gullied slope and create an even surface.



Pneumatic Compost Application



Compost being blown on to cover gullies and uneven surfaces;
maximum depth of 4 inches

Planting



Planting



Planting



Plants holes dug with hand auger; 13,000 plants placed and planted by hand

Watering



Watering



Maintenance Schedule

January ~ Trash removal as needed.

February ~ Trash removal as needed.

March ~ Trash removal as needed.

April ~ Trash removal and collect winter organic litter (leaves, twigs), weeding and pre-emergent application.

May ~ Trash removal, water, weed as needed.

June ~ Trash removal, water, weed as needed.

July ~ Trash removal, water, weed as needed, inspect for pest and winter damage, remove and replace dead plants.)

August ~ Trash removal, water, weed as needed.

September ~ Trash removal, water, weed as needed.

October ~ Trash removal, water, weed as needed.

November ~ Late month cut down ornamental grasses and herbaceous perennials with chain saw and trimmer discard clippings.

December ~ Trash removal as needed.

Note: For detailed maintenance, please see the attached Maintenance Recommendations.

Two year-follow up and monitoring of planting

- ✓ Possibilities of MITS system camera or digital photos at regular intervals from fixed position.
- ✓ Conducting field reviews at regular intervals.
- ✓ Record community concerns and comments.
- ✓ Record progress of planting and provide seasonal report to region.
- ✓ Possible use of a web-blog page for public to view and comment.

Design Credits

MDOT Metro Region Slope Committee Members:

Greg Johnson, Metro Region Engineer

Andrew Zeigler, Region Planner, Metro Region

Drew Buckner, Macomb TSC Manager

Sharon Ferman, Resource Specialist, Metro Region

Nanette Alton, Landscape Architect, Roadside Development, Lansing

Gina Red-Craig, Maintenance Engineer, Macomb TSC

Darwyn Heme, Roadside Analyst, Lansing Maintenance

Ahmad Azmoudeh, Maintenance Engineer, Oakland TSC

Scott Wheeler, Roadside Program Specialist, Lansing Maintenance

Landscape Contractor:

Marine City Nursery: Warren and Pat Senger

Plant Selection Advisors:

David Mackenzie, Hortech Nursery, Grand Haven, Michigan

Arthur Cameron, Professor of Horticulture, Michigan State University

Landscape Design:

Nanette Alton, Landscape Architect, MDOT, Roadside Development Unit